PROGRAMMING BEGINNER TO ADVANCED
Switch-Case

1. Write a Program to accept a month and display the **number of days** present in that month.

2. Write a menu driven program to calculate:
   1. Area of a circle = πr^2 $\pi = 22/7$
   2. Area of a square = side * side
   3. Area of a rectangle = length * breadth

Enter **'c'** to calculate area of circle ,**'s'** to calculate area of square and **'r'** to calculate area of rectangle.

3. Using switch case statement, write a menu driven program to convert a given temperature from **Fahrenheit to Celsius and vice versa**. For an incorrect choice an appropriate error message should be displayed. [C=5/9(F-32) and F=1.8*C+32]

4. Using Switch case, write a program that allows to accept any values **from 1 to 7** and displays the weekdays corresponding to the number entered from the key board.

5. Write a program to display the colour of the **spectrum (VIBGYOR)** according to the User's choice. **V**=violet **I**=indigo **B**=blue **G**=green **Y**= yellow **O**= orange **R**=red

6. Write a program using switch case to find the **volume of cube, a sphere and a cuboid.** For an incorrect choice an appropriate error message should be displayed.
   1. Volume of a cube = s * s * s
   2. Volume of a sphere = 4/3 * π * r * r * r
   3. Volume of a cuboid = l * b * h

7. A promoter cum Developer announces a special bonanza for early booking of the flats for their customers as per tariff given below:

Category	Discount on the price	Discount on Development Charge
Ground floor	10%	8%
First floor	2.0%	1.0%
Second floor	5%	5%
Third floor	7.5%	10%

Write a menu driven program to input price and the category '0' (zero) for ground floor, '1' for first floor , '2' for second floor and '3' for third floor. Calculate and display the total discount ,price of the flat after getting discount.

8. Write a menu driven program to accept a number and check and display whether it is prime number or not or automorphic number or not or even/odd number or not.
   1. Prime Number . Example:- 5,7,11 .
   2. Automorphic Number .Example – 5,25,6.
   3. Even/ODD Number. Example- EVEN NO- 2,4,8 ODD NO-3,5,7